

RING MAP DISCOVERY AND VALIDATION METHOD AND SYSTEM FOR OPTICAL NETWORK APPLICATIONS

ABSTRACT OF THE DISCLOSURE

A method and system for generating a ring map for optical network applications. The method includes sending a first discovery message to a first node through a portion of an optical network. The first node corresponds to a first node identification and a first predetermined identification. The first discovery message includes at least a source node identification associated with a source node, a source predetermined identification associated with the source node, and a first ring connectivity map. Additionally, the method includes if the source node identification and the first node identification are different, updating the first ring connectivity map. Also, the method includes if the source node identification and the first node identification are identical and if the source predetermined identification and the first predetermined identification are different sending a first alarm message.

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